

## CLAIMS:

1. A wireless network comprising a plurality of terminals and an assigned central station, which network, after receiving requests for the wireless transmission of packets between a transmitting and a receiving terminal during a time multiplex frame is provided for assigning time slots of a following time multiplex frame for the wireless transmission of  
5 packets from a transmitting to a receiving terminal, characterized in that after reception of all the requests the central station is provided for

- determining a first subset of all the transmitting terminals that intend to transmit packets to a plurality of receiving terminals, and a second subset containing the rest of the transmitting terminals,

10 - determining the order in which the transmitting terminals of the first subset transmit in accordance with the decreasing number of receiving terminals assigned to a transmitting terminal,

- subdividing the receiving terminals of the first subset assigned to a transmitting terminal into a first group which contains all the receiving terminals already  
15 used as transmitting terminals, and into a second group which contains all the other receiving terminals,

- determining the receiving order in the two groups in accordance with the transmission order as a transmitting terminal and

- first selecting the receiving terminal of the second group.

20 2. A wireless network as claimed in claim 1, characterized in that the central station is provided for determining the transmission order of the transmitting terminals of the second subset in such a way that first all the transmitting terminals are selected that have not previously been either a transmitting or a receiving terminal and then all the transmitting  
25 terminals are selected that have not previously been a receiving terminal and in that the transmitting terminals of the second subset are provided for transmitting either before or after the transmitting terminals of the first subset.

3. A wireless network as claimed in claim 1, characterized in that the central station is provided for dividing the transmitting terminals of the second subset into the transmission order of the first subset in such a way that a transmitting terminal is not a receiving terminal in the preceding and following time slot and a receiving terminal is not a transmitting terminal in the preceding and following time slot.

4. A central station in a wireless network comprising a plurality of terminals, which central station, after receiving requests for the wireless transmission of packets between a transmitting and a receiving terminal during a time multiplex frame is provided for assigning time slots of a following time multiplex frame for the wireless transmission of packets from a transmitting to a receiving terminal, characterized in that after reception of all the requests the central station is provided for

- determining a first subset of all the transmitting terminals that intend to transmit packets to a plurality of receiving terminals, and a second subset containing the rest of the transmitting terminals,

- determining the order in which the transmitting terminals of the first subset transmit in accordance with the decreasing number of receiving terminals assigned to a transmitting terminal,

- subdividing the receiving terminals of the first subset assigned to a transmitting terminal into a first group which contains all the receiving terminals already used as transmitting terminals, and into a second group which contains all the other receiving terminals,

- determining the receiving order in the two groups in accordance with the transmission order as a transmitting terminal and

- first selecting the receiving terminal of the second group.